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AUTHOR: ⑧ Nevstruyev, Ye.N.

TITLE: ⑥ Electrostatic ignition in carburetor engines

⑩ TRANS. FROM  
PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 24, 1962, 51, abstract  
42.24.351 (Avtomob. prom-st', 1962, no. 1, 17 - 20) PP.

TEXT: Two models of an electrostatic ignition generator were developed and tested at the Tomsk Polytechnical Institute. The working principle of the electrostatic generator is described, and its schematic and description are given. Bench tests showed that the electrostatic system has a number of advantages over existing designs of electromechanical ignition systems. Stability of the voltage generated by the generator at any operating speed, as well as very low sensitivity towards comparatively high shunting conductivity of the plugs through the insulation, should be considered as positive aspects of the electrostatic ignition generator. The electrostatic ignition system, like the magneto, needs no outside source of electric power. The system is considered promising, it is thought that it may successfully replace the usual ignition system in multicylinder high-

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Electrostatic ignition in carburetor engines

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speed piston and rotor engines, as well as in engines operating under special conditions (at high altitudes, with careful shielding, etc.). A complicating factor is the necessity to create a high air pressure in the generator of up to 20 - 22 kg/cm<sup>2</sup>.

[Abstracter's note: Complete translation]

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